



The Institute of Social and Preventive Medicine (IUMSP), University Hospital of Lausanne (CHUV) and the Faculty of Biology and Medicine, University of Lausanne (UNIL) offers a

PhD or Postdoctoral position in Statistical Genetics 100%

Background:

The Statistical Genetics Group of Zoltán Kutalik at the Institute of Social and Preventive Medicine of the University Hospital of Lausanne is investigating the genetic architecture of complex human traits and diseases. In particular, we develop methods tailored to discover gene-environment interactions, parent-of-origin effects, causal impact of molecular phenotypes, allelic heterogeneity, copy-number variant associations etc. Via longstanding collaborations we are fortunate to have access to several large cohorts with genomic-, transcriptomic- and metabolomics data. We have an extensive web of collaborations both in Switzerland and abroad (University of Exeter, University of Regensburg, Imperial College London, Mount Sinai School of Medicine, etc.). Our group is also member of the Swiss Institute of Bioinformatics.

The position is funded by the Swiss National Science Foundation (FNS) for 3 years (initially one year, renewable). Remuneration will be based on the salary scales applied by the FNS.

Requirements:

We are interested in recruiting a talented and highly motivated individual with PhD degree in statistics / mathematics / bioinformatics / computer science / physics. The ideal candidate should have

- strong background in statistics and data analysis combined with decent programming skills (R or Matlab preferred; python, C++ are a plus)
- past experience with (human) genetic data and some knowledge of metabolomics data analysis; experience in methylation-chip analysis is a plus
- good communication skills and excellent command of English (French is a plus)

Tasks:

The candidate will be responsible for

- developing methods for causal inference and their software implementation
- leading collaborative research on identifying predictive metabolomic biomarkers for T2D
- discovering genetic markers with parent-of-origin/environmentally-modified effects

Starting date: September 2018, or upon agreement.

Deadline for submission: 31 July 2018

Duration: maximum 3 years (initial contract for one year, renewable).

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Application:

Interested candidates are invited to send their electronic application exclusively via the CHUV internet site <http://www.chuv.ch/cariere> including a letter of motivation, a Curriculum Vitae and list of publications and copies of certificates and diploma.